

CLAIMS:

1. A shaving apparatus comprising:
at least one shaving head (3) comprising at least one cutter (6);
a trimmer (7); and
a drive structure comprising a motor (16) and a transmission structure (17) for
5 driving the at least one cutter (6) and the trimmer (7);
the trimmer (7) being disengageable from the drive structure;
characterized by reversing means (32-36) for reversing at least a portion of the
drive structure between a first sense of rotation and a second, opposite sense of rotation; and
a unidirectional clutch (22) between at least said portion of the drive structure
10 of which the sense of rotation is reversible and the at least one cutter (6).
2. A shaving apparatus according to claim 1, wherein the reversing means (32-
36) co-operate with the trimmer (7) for reversing said sense of rotation in response to an
action of putting said trimmer (7) into and out of operation.
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3. A shaving apparatus according to claim 1 or 2, wherein the reversing means
(32-36) comprise switching circuitry for reversing the sense of operation of said motor (16).
4. A shaving apparatus according to any one of the preceding claims, wherein the
20 drive structure has transmission ratios for driving the trimmer (7) with a number of cycles per
unit time and for driving the at least one cutter (6) of the at least one shaving head (3) with a
number of revolutions per unit time, such that said number of cycles per unit time of the
driven trimmer (7) is higher than said number of revolutions per unit time of the at least one
driven cutter (6).
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5. A shaving apparatus according to any one of the preceding claims, wherein a
portion of the transmission structure (17) for driving the trimmer (7) branches off from a
portion of the transmission structure (17) for driving said at least one cutter (6) at a shaft
coupled to be directly driven by the motor (16).